

*AMENDMENTS TO THE CLAIMS*

1. (Currently Amended) A system for guiding a vehicle along ~~at least one a~~ guiding rail, having a rolling surface and ~~which~~ at least one side surface that constitutes a guiding surface, ~~of the type which has~~ the system comprising:

a guiding roller device ~~configured to cooperate~~ cooperating with ~~said the~~ rolling surface and ~~said the~~ side surface and ~~having~~ including

a rolling ~~bearing~~ part ~~intended for being in~~ rolling contact ~~by its~~ at a peripheral surface with the ~~upper~~ rolling surface of the rail, and at least one side part ~~capable of coming into contact with the side surface of the rail facing it~~ the at least one side part, characterized by the fact that wherein the rolling part and the side part are rotationally connected and ~~configured such that the side part is in pin-point contact with the rail and has, at its a point of contact (54) with the rail (2), the same speed as central the rolling part (24) at the site of its on the rolling surface on rail (2).~~

2. (Currently Amended) ~~A~~ The system according to Claim 1, ~~characterized by the fact that wherein the side part of the roller device (1) has~~ includes at least one rolling support roller ~~(24)~~ and at least one side roller ~~(25, 26) forming said side part and of which the side part has a diameter and shape of side surface (51, 52) intended for coming into contact with~~ contacting the rail (2) are chosen such so that the side roller, at ~~its the~~ point of contact ~~(54) with the rail (2), has the same speed as central support roller (24) at the rolling part contacting the site of its rolling surface on~~ of the rail.

3. (Currently Amended) ~~A~~ The guiding system according to Claim 2, ~~characterized by the fact that it is guided along~~ for guiding by two parallel guiding rails, ~~of which the~~ having exterior side surfaces ~~constitute the as~~ guiding surfaces, ~~characterized by the fact that it has~~ the guiding system comprising a support roller and a side roller for each guiding rail.

4. (Currently Amended) ~~A~~ The system for guiding a vehicle along a guiding rail, according to Claim 2, ~~characterized by the fact that wherein the guiding roller device has three rollers,~~ includes a central roller and two side rollers ~~(25, 26) forming said as side parts and of which the,~~ the side parts having a diameter and the shape of side surface ~~(51, 52) intended for coming into contact with~~ contacting the rail ~~(2) are chosen such so that~~ the side rollers, at ~~their point~~ points of contact ~~(54) with the rail (2),~~ have the same speed as ~~the central support roller (24) at the site of its rolling surface on~~ of the rail.

5. (Currently Amended) ~~A~~ The system according to one of Claims Claim 2 to 4, ~~characterized by the fact that wherein~~ areas of contact ~~(51, 52) of the side rollers (25, 26) roller~~ have, in radial section, a convex profile, ~~advantageously an arc shape, and by the fact that~~ contact surfaces ~~(46, 47) of the rail~~ are essentially planar.

6. (Currently Amended) ~~A~~ The system according to Claim 4 or 5, ~~characterized by the fact that wherein the side roller (25, 26) is~~ rollers are rotationally synchronized with ~~the~~ central roller ~~(24).~~

7. (Currently Amended) ~~A~~ The system according to Claim 4 or 6, ~~characterized by the fact that the~~ including means of synchronization of the for synchronizing rotation speed of ~~the side roller (25, 26) rollers~~ with the rotation speed of ~~the~~ central roller ~~(24) comprises~~ comprising teeth ~~(56, 57) associated respectively with the side roller (25) and with the central roller (24), and~~ which mesh with one another.

8. (Currently Amended) ~~A~~ The system according to Claim 7, ~~characterized by the fact that a set of~~ wherein the teeth is are mounted on ~~its~~ a support ~~by a~~ via means allowing sliding between the teeth and the support when a relative force exceeding a predetermined threshold is ~~exceeded~~ applied.

9. (Currently Amended) ~~A~~ The system according to Claim 6 7, ~~characterized by the fact that wherein~~ the means of synchronization of the for synchronizing rotation speed

of the side roller ~~(25, 26)~~ rollers with the rotation speed of the central roller ~~(24)~~ is the type with includes belts ~~(82, 88)~~ and pulleys ~~(83, 86)~~.

10. (Currently Amended) ~~A~~ The system according to Claim ~~6~~ 7, ~~characterized by the fact that wherein the means of synchronization of the~~ for synchronizing rotation speed of the side roller ~~(129, 130)~~ rollers with the rotation speed of the central roller ~~(128)~~ comprises a ring ~~(153)~~ made out of a nondeformable solid material that comes in contact with a bearing surface ~~(154)~~ of the central roller so as to ensure the rotation of the side roller rollers by friction with the central roller.

11. (Currently Amended) ~~A~~ The system according to Claim ~~10~~, ~~characterized by the fact that wherein the central roller (128) is formed by~~ includes a ring rotating freely and maintained by a support device ~~(137)~~ connected with to a support shaft ~~(133)~~.

12. (Currently Amended) ~~A~~ The system according to Claim ~~10~~ 11, ~~characterized by the fact that wherein the support device (137) comprises rollers (143, 144) for support of by a ring (128) and that come into rolling contact with an internal annular surface (145, 146) of the ring.~~

13. (Currently Amended) ~~A~~ The system according to Claim ~~1~~, ~~characterized by the fact that it has including two rollers (167, 168), each of which has roller having a radial external part (170) intended for coming into contact with contacting a side surface of head (42) of the rail (2) and a radial internal part (171) intended for coming into contact with contacting the upper surface of the rail head, the two rollers being arranged in a V-shaped configuration.~~

14. ~~A~~ The system according to Claim ~~13~~ 1, ~~characterized by the fact that wherein the system has includes two rollers (177, 178), each of which has roller having a radial external part (180) intended for coming into contact with contacting a side surface of head (42) of the rail (2) and a radial internal part (181) intended for coming into contact with the contacting~~

an upper surface of the rail-head, the two rollers being arranged in a V-shaped configuration, ~~and by the fact that one~~ wherein a first of the rollers ~~(178)~~ has a peripheral ring ~~(183)~~ intended for ~~coming into contact with~~ contacting an annular surface ~~(184)~~ of the other roller ~~(177)~~ so as a second of the rollers to ensure the rotation of the first roller ~~(178)~~ by friction with the second roller ~~(177)~~.